

CLAIMS

1. A record medium for recording a plurality of types of management information provided corresponding to a plurality of types of record mediums along with data of a content.
2. The record medium as set forth in claim 2, wherein the plurality of types of additional information are embedded as additional information to the data of the content.
3. The record medium as set forth in claim 2, wherein the additional information is spectrum-spread and superimposed to the data of the content.
4. The record medium as set forth in claim 2, wherein the additional information is inserted into a low order bit of the data of the content.
5. The record medium as set forth in claim 2, wherein the additional information is inserted into a high order coefficient of which the data of the content has been compressed.
6. The record medium as set forth in claim 2, wherein the additional information is inserted into the data of the content using masking effect so that the additional information does not adversely affect the data of the content.
7. The record medium as set forth in claim 2,

wherein the additional information is inserted into a first peak or a second peak in a predetermined range of the data of the content, or in the vicinity of the first peak or the second peak.

5        8.            The record medium as set forth in claim 2,  
             wherein the additional information contains  
             at least sync data, original medium type representation  
             identification information, copy condition  
             representation information, and generation management  
10        information.

10       9.            The record medium as set forth in claim 1,  
             wherein the record medium has a data record  
             area to which the data of the content is recorded, the  
             plurality of types of management information being  
15        recorded to the data area.

15       10.          The record medium as set forth in claim 1,  
             wherein the plurality of types of management  
             information is recorded to an area designated for sub  
             code data in the data record area.

20       11.          The record medium as set forth in claim 9,  
             wherein the plurality of types of management  
             information is recorded to an area designated for  
             header data in the data record area.

25       12.          The record medium as set forth in claim 9,  
             further comprising:

             a lead-in area that is read before the data  
             record area, the plurality of types of management

information being recorded to the lead-in area.

13. The record medium as set forth in claim 9,  
further comprising:

an area to which index data is recorded, the  
5 area being read before the data record area, the  
plurality of types of management information being  
recorded to the area to which the index data is  
recorded.

14. The record medium as set forth in claim 1,  
10 wherein the plurality of types of management  
information are first management information for  
reproduction-only record mediums and second management  
information for recordable record mediums.

15. The record medium as set forth in claim 14,  
15 wherein the first management information and  
the second management information are information that  
contains at least one of copy management information,  
charging management information, and reproduction  
management information.

20 16. The record medium as set forth in claim 15,  
wherein the copy management information is  
information for controlling a recording operation  
and/or a reproducing operation for data of a content  
that is read from the record medium corresponding to  
25 the type thereof.

17. The record medium as set forth in claim 1,  
wherein the plurality of types of management

information is provided corresponding to types of the record mediums that are an original record medium and a non-original record medium.

18. A recording method for a record medium,  
5 comprising the steps of:

embedding a plurality of types of management information provided corresponding to a plurality of types of record mediums as additional information to data of a content that is recorded;

10 performing a first encoding process for the data of the content to which the additional information has been embedded;

performing a second encoding process for the plurality of types of management information; and

15 modulating the data of the content of which the first encode process has been performed and the plurality of types of management information of which the second encode process has been performed.

19. A recording method for a record medium,  
20 comprising the steps of:

determining the type of a record medium to which a plurality of types of management information provided corresponding to a plurality of types of record mediums have been recorded along with data of a  
25 content; and

controlling a recording operation for the data of the content that has been read from the record

medium corresponding to the management information selected corresponding to the determined result of the record medium in the plurality of types of management information.

5 20. The recording method for the record medium as set forth in claim 19,

10 wherein the plurality of types of management information contains first management information for reproduction-only record mediums and second management information for recordable record mediums, and

15 wherein the controlling step is performed by controlling the recording operation corresponding to the first management information when the determined result at the determining step represents that the record medium is a reproduction-only record medium and by controlling the recording operation corresponding to the second management information when the determined result at the determining step represents that the record medium is a recordable record medium.

20 21. The recording method for the record medium as set forth in claim 20,

25 wherein the controlling step is performed by prohibiting the recording operation for the data of the content that is read from the record medium when the determined result at the determining step represents that the record medium is a reproduction-only record medium and the second management information prohibits

the recording operation of the data or the content that is read from the record medium.

22. The recording method for the record medium as set forth in claim 20, further comprising the step of:

5 when the data of the content that is read from the record medium as a copy source is recorded to another record medium as a copy destination, recording the plurality of types of management information to the other record medium as the copy destination along with the data of the content that is read from the record medium as the copy source.

23. The recording method for the record medium as set forth in claim 22,

15 wherein the management information contains at least one of information that represents a generation and information that represents a condition in which the data of the content that is read from the record medium as the copy source is recorded to the other record medium as the copy destination.

20 24. The recording method for the record medium as set forth in claim 22,

25 wherein when the data of the content that is read from the other medium as a copy source is recorded to a further record medium as a copy destination, the controlling step is performed by controlling the recording operation for the data of the content that is read from the other record medium as the copy source

corresponding to the second management information.

25. The recording method for the record medium as set forth in claim 24,

5 wherein the controlling step is performed by prohibiting the data of the content that is read from the other record medium from being recorded.

26. The recording method for the record medium as set forth in claim 19,

10 wherein the determined Result at the determining step represents that the record medium is a recordable record medium and the second management information permits the recording operation for the data of the content that is read from the record medium, the controlling step is performed by performing the  
15 recording operation for the data of the content that is read from the record medium as the copy source corresponding to the second management information and rewriting the second management information so that it prohibits a further recording operation for the data of  
20 the content.

27. An output controlling method, comprising the steps of:

25 reading data of a content and a plurality of types of management information from a record medium, the plurality of types of management information provided corresponding to a plurality of types of record mediums being embedded to the data of the

content, the plurality of types of management information being recoded in a predetermined area of the record medium;

5 extracting the plurality of types of management information from the data of the content that is read from the record medium;

10 collating the plurality of types of management information that are extracted with the plurality of types of management information that are read from the record medium; and

controlling an output of the data of the content that is read corresponding to the collated result.

15 28. The output controlling method as set forth in claim 27,

20 wherein when the plurality of management information that are extracted do not match the plurality of types of management information that are read from the record medium, the controlling step is performed by not permitting the data of the content that is read from the record medium to be output.

29. The output controlling method as set forth in claim 28,

25 wherein when the plurality of types of management information that are extracted match the plurality of types of management information that are read from the record medium, the controlling step is



performed by controlling the output of the data of the content that is read from the record medium corresponding to the plurality of types of management information that are read from the record medium.

5 30. The output controlling method as set forth in claim 29, further comprising the step of:

10 determining the type of the record medium,  
wherein the controlling step is performed by controlling the output of the data of the content that is read corresponding to a management condition selected corresponding to the determined result of the record medium from the plurality of types of management information.

15 31. A reproducing apparatus for a record medium, comprising:

20 a reading portion for reading data of a content and a plurality of types of management information from the record medium, the plurality of types of management information provided corresponding to a plurality of types of record mediums being embedded to the data of the content, the plurality of types of management information being recoded in a predetermined area of the record medium;

25 an extracting portion for extracting the plurality of types of management information from the data of the content that is read from the record medium by said reading portion;

a collating portion for collating the plurality of types of management information that are extracted by said extracting portion with the plurality of types of management information that are read from the record medium by said reading portion; and

an output controlling portion for controlling an output of the data of the content that is read corresponding to the collated result by the collating portion.

32. The reproducing apparatus for the record medium as set forth in claim 31,

wherein when the plurality of management information that are extracted by said extracting portion do not match the plurality of types of management information that are read from the record medium by said reading portion, said output controlling portion does not permit the data of the content that is read from the record medium to be output.

33. The reproducing apparatus for the record medium as set forth in claim 32,

wherein said output controlling portion has a switch circuit portion, and

wherein when the collated result of said collating portion represents that the plurality of types of management information extracted by said extracting portion do not match the plurality of types of management information that are read from the record

medium by said reading portion, said switch circuit portion is opened.

34. The reproducing apparatus for the record medium as set forth in claim 33,

5 wherein when the collated result of said collating portion represents that the plurality of types of management information extracted by said extracting portion match the plurality of types of management information that are read from the record medium by said reading portion, said switch circuit portion is closed and thereby the data of the content that is read from the record medium corresponding to the plurality of types of management information that are read from the record medium is output through said switch circuit portion.

10 35. The reproducing apparatus for the record medium as set forth in claim 31, further comprising:

15 a determining portion for determining the type of the record medium corresponding to a signal that is read from the record medium by said reading portion,

20 wherein one of the plurality of types of management information that are read from the record medium by said reading portion is selected corresponding to the determined result of said determining portion,

25 wherein one of the plurality of types of

management information extracted by said extracting portion is selected, and

wherein the selected management information is supplied to said collating portion.

5 36. The reproducing apparatus for the record medium as set forth in claim 35,

wherein said output controlling portion has:

10 a second determining portion for determining a selected management condition corresponding to the determined result of said determining portion; and

15 a switch circuit portion for controlling the output of the data of the content that is read from the record medium, the open state and close state of said switch circuit portion being controlled by an output of said second determining portion.

37. The reproducing apparatus for the record medium as set forth in claim 31,

wherein said reading portion has:

20 a head portion for reading the data of the content and the plurality of types of management information from the record medium;

a demodulating portion for decoding an output signal of said head portion;

25 a second extracting portion for extracting the plurality of types of management information from output data of said demodulating portion; and

an error correction processing portion for

performing an error correcting process for output data of said demodulating portion and supplying the resultant output data to said second extracting portion.

38. A record and reproduction controlling method for a record medium, comprising the steps of:

reading data of a content and a plurality of types of management information from a record medium, the plurality of types of management information provided corresponding to a plurality of types of record mediums being embedded as additional information to the data of the content, the plurality of types of management information being recoded in a predetermined area of the record medium;

extracting the additional information from the data of the content that is read from the record medium;

collating the plurality of types of management information that are contained in the extracted additional information with the plurality of types of management information that are read from the record medium; and

controlling an output of the data of the content that is read corresponding to the collated result.

39. The record and reproduction controlling method for the record medium as set forth in claim 38, wherein when the plurality of management

information that are contained in the extracted  
additional information do not match the plurality of  
types of management information that are read from the  
record medium, the controlling step is performed by not  
5 permitting the data of the content that is read from  
the record medium to be output.

40. The record and reproduction controlling  
method for the record medium as set forth in claim 39,

wherein when the plurality of types of  
10 management information that are contained in the  
extracted additional information match the plurality of  
types of management information that are read from the  
record medium, the controlling step is performed by  
controlling the output of the data of the content that  
15 is read from the record medium corresponding to the  
plurality of types of management information that are  
read from the record medium.

41. The record and reproduction controlling  
method for the record medium as set forth in claim 40,  
20 further comprising the step of:

determining the type of the record medium,  
wherein the controlling step is performed by  
controlling the output of the data of the content that  
is read corresponding to a management condition  
25 selected corresponding to the determined result of the  
type of the record medium from the plurality of types  
of management information.

42. The record and reproduction controlling method as set forth in claim 41,

wherein when the data of the content that is read corresponding to the selected management information is recorded to another record medium, the controlling step is performed by recording the data of the content that is read from the record medium and the plurality of types of management information to the other record medium.

43. A reproducing method for a record medium, comprising the steps of:

determining the type of the record medium, data of a content and at least reproduction management information for reproduction-only record mediums and reproduction management information for recordable record mediums being recorded to the record medium; and

controlling a reproducing operation corresponding to the management information selected corresponding to the determined result of the type of the record medium from the plurality of types of management information.

44. The reproducing method for the record medium as set forth in claim 43,

wherein the controlling step is performed by switching a charging process for the data of the content that is reproduced corresponding to the selected management information.

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45. A recording method, comprising the steps of:  
determining the type of a record medium, a  
plurality of types of management information provided  
corresponding to types of record mediums being recorded  
5 to the record medium along with data of a content, the  
plurality of types of management information containing  
copy management information;

determining whether or not the record medium  
is an original record medium corresponding to the  
10 management information that is read from the record  
medium and the determined result of the type of the  
record medium at the first determining step; and

when the determined result at the first  
determining step represents that the record medium is  
15 an original record medium, controlling a recording  
operation for the data of the content that is read from  
the record medium to another record medium  
corresponding to the copy management information.

46. The recording method as set forth in claim 45,  
20 when the management information that is read  
from the record medium matches the determined result of  
the type of the record medium at the first determining  
step, the determined result at the second determining  
step represents that the record medium is an original  
25 record medium.

47. The recording method as set forth in claim 45,  
further comprising the steps of:



when the determined result at the second  
determining step represents that the record medium is  
not an original record medium, determining whether or  
not the copy management information is copy management  
5 information that permits a copy operation to be  
performed in one generation; and

when the copy management information is copy  
management information that permits a copy operation to  
be performed in one generation, advancing the  
10 generation of the copy management information by one,

wherein the controlling step is performed by  
controlling the recording operation corresponding to  
the copy management information of which the generation  
has been advanced by one.

48. The recording method as set forth in claim 47,  
15 wherein the controlling step is performed by  
prohibiting the recording operation corresponding to  
the copy management information of which the generation  
has been advanced by one.

49. The recording method as set forth in claim 47,  
20 wherein when the copy management information  
is not copy management information that permits a copy  
operation to be performed in one generation, the  
controlling step is performed by controlling the  
25 recording operation corresponding to the copy  
management information.

50. The recording method as set forth in claim 45,

further comprising the step of:

when the determined result at the second determining step represents that the record medium is not an original record medium, determining whether or not the copy management information is copy management information that permits a copy operation to be performed in one generation; and

when the copy management information is copy management information that permits the copy operation to be performed in one generation, rewriting the copy management information so that it prohibits a copy operation,

wherein the controlling step is performed by controlling the recording operation corresponding to the rewritten copy management information.

51. A recording method, comprising the steps of:

determining the type of a record medium, a plurality of types of management information provided corresponding to a plurality of types of record mediums being recorded on the record medium, the plurality of types of management information containing identification information, copy generation information, and copy management information;

determining whether or not the record medium is an original record mediums corresponding to the management information that is read from the record medium and the determined result of the type of the

record medium at the first determining step; and

when the determined result at the second  
determining step represents that the record medium is  
an original record medium, advancing the generation of  
the copy generation information by one and controlling  
a recording operation for recording the data of the  
content that is read the record medium to another  
record medium corresponding to the copy management  
information.

52. The recording method as set forth in claim 51,  
wherein the controlling step is performed by  
controlling the recording operation for the data of the  
content that is read from the record medium and the  
management information that contains the copy  
generation information of which the generation has been  
advanced by one corresponding to the copy management  
information.

53. The recording method as set forth in claim 52,  
wherein the second determining step is  
performed by determining whether or not the record  
medium is an original record medium corresponding to  
the determined result of the record medium at the first  
determining step, the identification information, and  
the copy generation information.

54. The recording method as set forth in claim 52,  
wherein when the determined result at the  
second determining step represents that the record

medium is not an original record medium, the  
controlling step is performed by advancing the  
generation of the copy generation information by one,

5 wherein when the data of the content that is  
read from the record medium is recorded to the other  
record medium, the controlling step is performed by  
further advancing the generation of the copy generation  
information by one and performing the recording  
operation for recording the resultant copy generation  
10 information to the other record medium along with the  
data of the content that is read from the record medium.

55. The recording method as set forth in claim 51,

wherein the management information further  
contains charging information, and

15 wherein when the data of the content that is  
read from the record medium is recorded to the other  
record medium corresponding to the copy management  
information, the controlling step is performed by  
performing a charging process corresponding to the  
20 charging information.

56. A reproducing method, comprising the steps  
of:

determining the type of a record medium, a  
plurality of types of management information provided  
25 corresponding to a plurality of types of record mediums  
being recorded to the record medium along with data of  
a content;

determining whether or not the record mediums  
is an original record medium corresponding to the  
management information that is read from the record  
medium and the determined result of the type of the  
5 record medium at the first determining step; and

when the determined result at the second  
determining step represents that the record medium is  
an original record medium, performing a reproducing  
operation for the record medium corresponding to the  
management information.

10 57. The reproducing method as set forth in claim  
56, further comprising the step of:

when the determined result at the second  
determining step represents that the record medium is  
15 not an original record medium, prohibiting the record  
medium from being reproduced.

58. The reproducing method as set forth in claim  
57,

wherein the management information contains  
20 copy generation information, and

wherein the reproducing method further  
comprises the step of:

when the determined result at the second  
determining step represents that the record medium is  
25 not an original record medium, advancing the generation  
of the copy generation information by one.

59. The reproducing method as set forth in claim

51,

wherein the management information further  
contains charging information, and

wherein the reproducing method further  
comprises the step of:

when the data of the content that is read  
from the record medium is reproduced corresponding to  
the charging information, performing a charging process  
corresponding to the charging information.

60. A recording and reproducing method,  
comprising the steps of:

determining the type of a record medium, a  
plurality of types of management information provided  
corresponding to a plurality of types of record mediums  
being recorded on the record medium, the plurality of  
types of management information containing copy  
generation information and copy management information;

determining whether or not the record medium  
is an original record mediums corresponding to the  
management information that is read from the record  
medium and the determined result of the type of the  
record medium at the first determining step;

when the determined result at the second  
determining step represents that the record medium is  
an original record medium, reproducing the record  
medium corresponding to the management information; and

advancing the generation of the copy

generation information by one and controlling a  
recording operation for recording the data of the  
content that is read from the record medium to another  
record medium corresponding to the copy management  
information.

61. The recording and reproducing method as set  
forth in claim 60,

wherein the controlling step is performed by  
controlling the recording operation for the data of the  
content that is read from the record medium and the  
management information that contains the copy  
generation information of which the generation has been  
advanced by one corresponding to the copy management  
information.

62. The recording and reproducing method as set  
forth in claim 61,

wherein the second determining step is  
performed by determining whether or not the record  
medium is an original record medium corresponding to  
the determined result of the record medium at the first  
determining step, the identification information, and  
the copy generation information.

63. The recording and reproducing method as set  
forth in claim 60, further comprising the step of:

wherein when the determined result at the  
second determining step represents that the record  
medium is not an original record medium, prohibiting

the record medium from being reproduced.

64. The recording and reproducing method as set forth in claim 60,

wherein when the determined result at the  
5 second determining step represents that the record  
medium is not an original record medium, the  
controlling step is performed by advancing the  
generation of the copy generation information by one  
and controlling the reproducing operation for the  
10 record medium corresponding to the management  
information,

wherein when the data of the content that is  
read from the record medium is recorded to the other  
record medium, the controlling step is performed by  
15 further advancing the generation of the copy generation  
information by one and controlling the recording  
operation for recording the data of the content that is  
read from the record medium to the other record medium  
corresponding to the management information.

20 65. A recording method, comprising the steps of:

identifying the type of a record medium, the  
record medium having an identification portion used to  
identify the type of the record medium, at least first  
management information for reproduction-only record  
25 medium and second management information for recordable  
record mediums being recorded to the record medium  
along with data of a content; and



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controlling a recording operation for  
recording the data of the content that is read from the  
record medium along with the first management  
information and the second management information to  
5 another record medium corresponding to the first  
management information, when the determined result of  
the type of the record medium at the determining step  
represents that the record medium is a reproduction-  
only record medium, and a recording operation for  
10 recoding the data of the content that is read from the  
record medium along with the first management  
information and the second management information to  
the other record medium corresponding to the second  
management information, when the determined result of  
15 the type of the record medium at the determining step  
represents that the record medium is a recordable  
record medium.

66. The recording method as set forth in claim 65,  
wherein when the data of the content that is  
20 read from the record medium is recorded to the other  
record medium corresponding to the second management  
information, the controlling step is performed by  
rewriting the second management information so that it  
prohibit the recording operation.

25 67. The recording method as set forth in claim 66,  
wherein when the data of the content that is  
read from the record medium is recorded to the other

record medium corresponding to the first management information, the controlling step is performed by not rewriting the first management information and the second management information.

5 68. The recording method as set forth in claim 64,

wherein the first management information and the second management information are embedded to the data of the content and recorded to the record medium, the first management information and the second management information being recorded in a predetermined area of the record medium, and

10 wherein the recording method further comprises the step of:

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15 collating the management information selected corresponding to the type of the record medium from the first management information and the second management information extracted from the data of the content that is read from the record medium with the management information selected corresponding to the determined result of the type of the record medium from the first management information and the second management information that are read from the predetermined area of the record medium, and

20 wherein when the first management information or the second management information that is extracted from the data of the content matches the first management information or the second management

information that is read from the record medium, the controlling step is performed by permitting the data of the content that is read from the record medium to be output to the other record medium.

5 69. The recording method as set forth in claim 68,

wherein when the first management information or the second management information that is extracted from the data of the content does not match the first management information or the second management

10 information that is read from the record medium, the controlling step is performed by prohibiting the data of the content that is read from the record medium from being output to the other record medium.

70. The recording method as set forth in claim 68,

15 wherein when the first management information or the second management information that is extracted from the data of the content matches the first

management information or the second management information that is read from the record medium and

20 when the management information selected from the first management information and the second management information corresponding to the identified result of

the record medium permits the data of the content that is read from the record medium to be recorded, the

25 controlling step is performed by permitting the data of the content that is read from the record medium to be output.

71. A recording and/or reproducing method,  
comprising the steps of:

determining the type of a record medium, the  
record medium having an identification portion used to  
5 identify the type thereof, management information  
containing at least identification information, copy  
generation information, and copy management information  
being recoded to the record medium along with data of a  
content;

10 determining whether or not the record medium  
is an original record medium corresponding to the  
identified result of the record medium and at least the  
identification information and the copy generation  
information that are read from the record medium; and

15 controlling a recording operation and/or a  
reproducing operation for the record medium  
corresponding to the determined result at the second  
determining step.

72. The recording and/or reproducing method as  
20 set forth in claim 71,

wherein when the determined result at the  
second determining step represents that the record  
medium is an original record medium, the controlling  
step is performed by controlling the reproducing  
25 operation for the record medium corresponding to the  
management information.

73. The recording and/or reproducing method as

set forth in claim 71,

wherein when the determined result at the second determining step represents that the record medium is an original record medium, the controlling step is performed by recording the data of the content that is read from the record medium to another record medium corresponding to the copy management information and the copy generation information, advancing the generation of the copy generation information by one, and recording the data of the content and the resultant copy generation information to the other record medium.

74. The recording and/or reproducing method as set forth in claim 71,

wherein when the determined result at the second determining step represents that the record medium is not an original record medium, the controlling step is performed by advancing the generation of the copy generation information that is read from the record medium by one generation.

75. The recording and/or reproducing method as set forth in claim 74,

wherein the controlling step is performed by controlling the reproducing operation for the record medium corresponding to the management information.

76. The recording and/or reproducing method as set forth in claim 74,

wherein the controlling step is performed by

recording the data of the content that is read from the record medium to the other record medium corresponding to the copy management information and the copy generation information, advancing the generation of the copy generation information by one, and recoding the data of the content and the resultant copy generation information to the other record medium.

77. The recording and/or reproducing method as set forth in claim 71,

when the determined result at the second determining step represents that the record medium is an original record medium, the controlling step is performed by prohibiting the record medium from being reproduced.

78. Content data of which a plurality of types of management information provided corresponding to a plurality of types of record mediums are embedded as additional information to data.

79. The content data as set forth in claim 78, wherein the additional information is spectrum-spread and superimposed to the data.

80. The content data as set forth in claim 78, wherein the additional information is inserted into a low order bit of the data.

81. The content data as set forth in claim 78, wherein the additional information is inserted into a high order coefficient of which the

data has been compressed.

82. The content data as set forth in claim 78,  
wherein the additional information is  
inserted into the data using masking effect so that the  
additional information does not adversely affect the  
data.

83. The content data as set forth in claim 78,  
wherein the additional information is  
inserted into a first peak or a second peak in a  
predetermined range of the data, or in the vicinity of  
the first peak or the second peak.

84. The content data as set forth in claim 78,  
wherein the plurality of types of management  
information are first management information for  
reproduction-only record mediums and second management  
information for recordable record mediums.

85. The content data as set forth in claim 79,  
wherein the first management information and  
the second management information are information that  
contains at least one of copy management information,  
charging management information, and reproduction  
management information.

86. The content data as set forth in claim 78,  
wherein the additional information contains  
at least sync data, original medium type representation  
identification information, copy condition  
representation information, and generation management

information.

87. The content data as set forth in claim 86,  
wherein the generation management information  
is written a plurality of times.

5 88. The content data as set forth in claim 87,  
wherein error detection code is added to the  
additional information, the generation management  
information being excluded from an error detection  
block of the error detection code.

10 89. A record medium having an identification  
portion used to identify the type thereof, data of a  
content being recorded to the record medium, a  
plurality of management information provided  
corresponding to a plurality of types of record mediums  
15 being embedded as additional information to the data of  
the content, the plurality of types of management  
information being recorded in a predetermined area of  
the record medium.

20 90. The record medium as set forth in claim 89,  
wherein the additional information is  
inserted into a low order bit of the data.

91. The record medium as set forth in claim 89,  
wherein the additional information is  
inserted into a high order coefficient of which the  
25 data has been compressed.

92. The record medium as set forth in claim 89,  
wherein the additional information is



inserted into the data using masking effect so that the additional information does not adversely affect the data.

93. The record medium as set forth in claim 89,  
5 wherein the additional information is inserted into a first peak or a second peak in a predetermined range of the data, or in the vicinity of the first peak or the second peak.

94. The record medium as set forth in claim 89,  
10 wherein the additional information is spectrum-spread and superimposed to the data of the content.

95. The record medium as set forth in claim 89,  
15 wherein the plurality of types of management information are first management information for reproduction-only record mediums and second management information for recordable record mediums.

96. The record medium as set forth in claim 95,  
20 wherein the first management information and the second management information are information that contains at least one of copy management information, charging management information, and reproduction management information.